



# SPYWOLF

## Security Audit Report



Completed on  
**September 4, 2023**

@SPYWOLFNETWORK



@SPYWOLFNETWORK



SPYWOLF.CO





# OVERVIEW

This audit has been prepared for **OSMO** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence



*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*



- SPYWOLF Team -





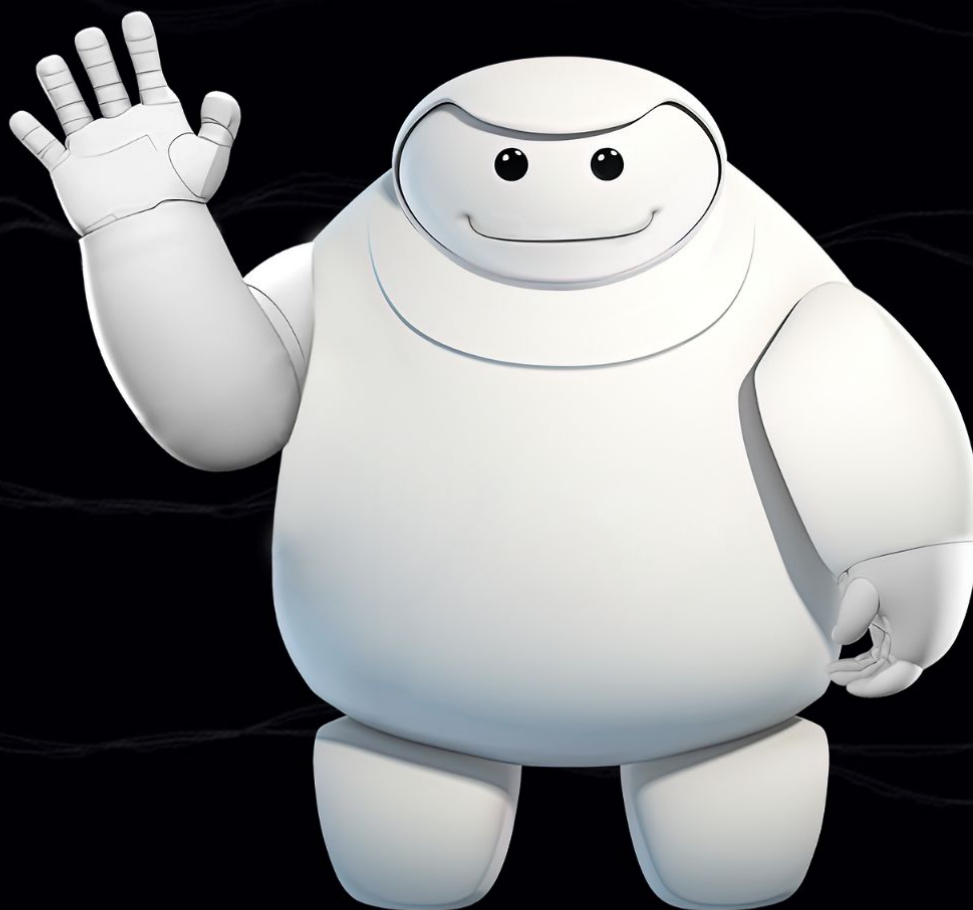
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# OSMO



## PROJECT DESCRIPTION

### **According to their whitepaper:**

Meet OSMO, the revolutionary artificial intelligence platform that supercharges your business operations.

By integrating with various APIs and 3rd party connections, our platform can streamline processes throughout the enterprise organization, automate routine tasks, and provide intelligent insights, thereby enhancing productivity and efficiency in the workplace.

**Release Date:** Presale starts in September, 2023

**Category:** AI

01



# CONTRACT INFO

Token Name  
Osmo Bot

Symbol  
osmo

Contract Address

0xE44ac096D96b7918afc0d98cB18D40c5CA5868aB

Network  
Ethereum

Language  
Solidity

Deployment Date  
Aug 31, 2023

Contract Type  
Token with fees

Total Supply  
1,000,000

Status  
Not launched

## TAXES

Buy Tax  
**3%**

Sell Tax  
**3%**

\*Taxes can be changed in future.



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# TOKEN TRANSFERS STATS

Transfer Count	13
Uniq Senders	4
Uniq Receivers	5
Total Amount	3307643.75 OSMO
Median Transfer Amount	49999.999999999999 OSMO
Average Transfer Amount	254434.1346153846 OSMO
First transfer date	2023-08-31
Last transfer date	2023-09-01
Days token transferred	2

# SMART CONTRACT STATS

Calls Count	45
External calls	11
Internal calls	34
Transactions count	22
Uniq Callers	6
Days contract called	2
Last transaction time	2023-09-01 16:24:11 UTC
Created	2023-08-31 11:22:11 UTC
Create TX	0x581c17f524b533c91acd5141fdd830418652167bef9526cf09b12a149bfa2eef
Creator	0xd00fb2805d51637abb8807dac58ecac8b60a0f2b



# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

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Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.





# FOUND THREATS

## ⚠ High Risk

Trading is currently disabled.  
Owner can enable trading once.

```
function launchTrading() external onlyOwner {
    require(!tradingOpen, "Trading already enabled");
    tradingOpen = true;
    init = block.number + startEnd;
}

function _transfer(
    address sender,
    address recipient,
    uint256 amount
) private {
    .....
    checkTradingAllowed(sender, recipient);
    .....
}

function checkTradingAllowed(
    address sender,
    address recipient
) internal view {
    if (!isFeeExempt[sender] && !isFeeExempt[recipient]) {
        require(tradingOpen, "ERC20: Trading is not allowed");
    }
}
```

- Recommendation:
  - Trading should be enabled



# FOUND THREATS

## ⚠ Low Risk

Owner can set buy fees up to 20% and sell/transfer fees up to 12.5%.  
Combined buy+sell = 32.5%.

There will be dynamic tax applied in the first 15 (fifteen) blocks after trading is enabled, starting from 27% and decreasing gradually.

After 15th block after initial launch, taxes will be the current set taxes.

```
uint256 private startEnd = 15;
function setStructure(
    uint256 _buy,
    uint256 _sell,
    uint256 _trans
) external onlyOwner {
    buyFee = _buy;
    sellFee = _sell;
    transferFee = _trans;
    require(
        buyFee <= denominator.div(5) &&
        sellFee <= denominator.div(8) &&
        transferFee <= denominator.div(8),
        "buyFee and sellFee cannot be more than 20%"
    );
}

function takeFee(
    address sender,
    address recipient,
    uint256 amount
) internal returns (uint256) {
    if (getTotalFee(sender, recipient) > 0) {
        uint256 feeAmount = amount.div(denominator).mul(
            getTotalFee(sender, recipient)
        );
        _balances[address(this)] = _balances[address(this)].add(feeAmount);
        emit Transfer(sender, address(this), feeAmount);
        return amount.sub(feeAmount);
    }
    return amount;
}
```

```
function getTotalFee(
    address sender,
    address recipient
) public view returns (uint256) {
    if (init >= block.number) {
        if (recipient == pair) {
            return
                ((startFee - sellFee) *
                 ((init - block.number) * 10000) / startEnd) /
                10000 +
                sellFee;
        }
        if (sender == pair) {
            return
                ((startFee - buyFee) *
                 ((init - block.number) * 10000) / startEnd) /
                10000 +
                buyFee;
        }
    } else {
        if (recipient == pair) {
            return sellFee;
        }
        if (sender == pair) {
            return buyFee;
        }
    }
    return transferFee;
}
```



## Informational

Owner can withdraw any tokens from the contract.

When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function rescueERC20(address _address, uint256 _amount) external onlyOwner {  
    IERC20(_address).transfer(msg.sender, _amount);  
}  
  
function rescueETH() external onlyOwner {  
    payable(msg.sender).transfer(address(this).balance);  
}
```

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function setisExempt(address _address, bool _enabled) external onlyOwner {  
    isFeeExempt[_address] = _enabled;  
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## OSMO

### GOOD PRACTICES FOUND

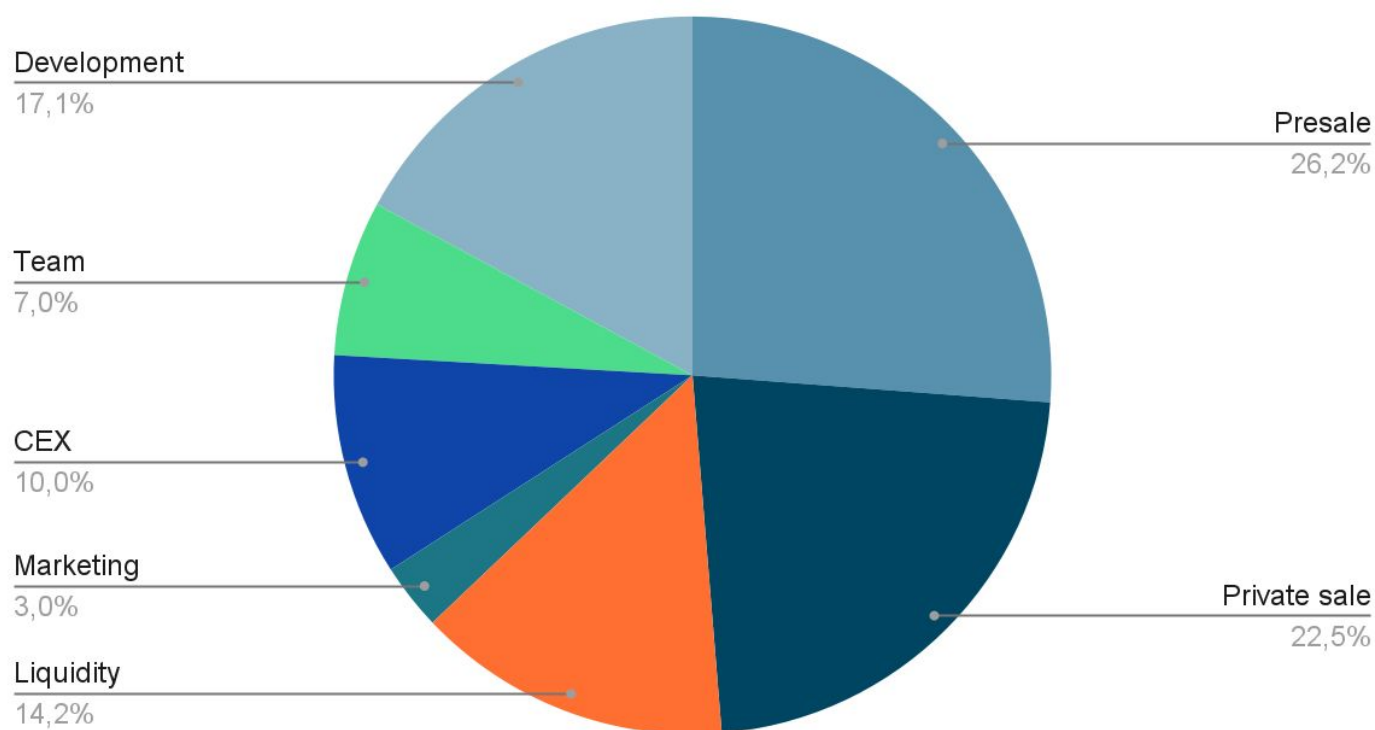
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the project's whitepaper and/or website:

- Presale - 26.2%
- Private sale - 22.5%
- Liquidity - 14.2%
- Marketing - 3%
- CEX - 10%
- Team - 7%
- Development - 17.1%

### Tokens distribution



# TOKENOMICS



# THE TEAM

! The team is anonymous

## KYC INFORMATION

### No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





# WEBSITE

## Website URL

<https://www.myosmo.ai/>

## Domain Registry

<https://1api.net>

## Domain Expiration

2024-05-07

## Technical SEO Test

Passed

## Security Test

Passed. SSL certificate present

## Design

Single page design with appropriate color scheme and graphics.

## Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

## Whitepaper

Well written, explanatory.

## Roadmap

Yes, goals set without time frames.

## Mobile-friendly?

Yes



# myosmo.ai

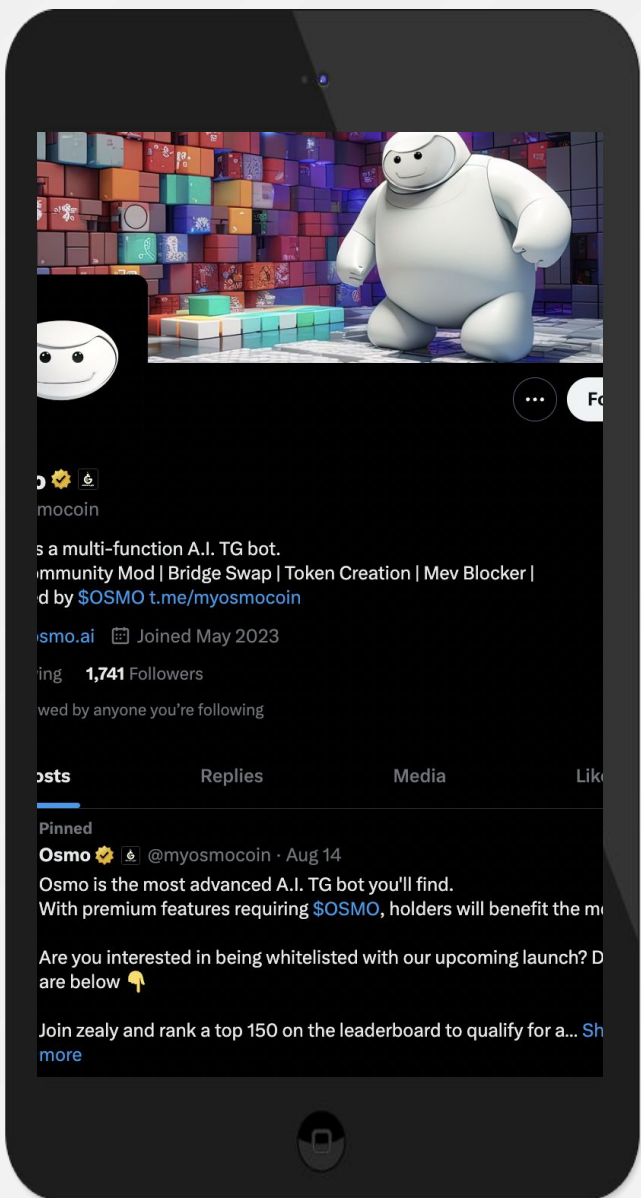




# SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS  
Project’s social media pages are active



Twitter  
@myosmocoin

- 1 691 followers
- Active
- Posts frequently



Discord

- Not available



Telegram  
@myosmocoin

- 2 037 members
- Active members
- Active mods



Medium

- Not available





# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 500 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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[t.me/joe\\_SpyWolf](https://t.me/joe_SpyWolf)

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.